Crossley Farm Superfund Site

Priority Panel Presentation Vapor Intrusion Mitigation

2013



Background

- Site is solvent disposal areas on a farm and two resultant TCE ground water plumes underneath houses
- Drums of solvents brought to the Site from nearby industry during 1960's and 1970's

Timeline: PADEP discovered ground water problem in 1983

NPL listing 1992 RI/FS 1994-2001

EPA Removal 1,200 buried drums and soil 1998

- Groundwater Plume
 - Trichloroethylene (TCE) main contaminant
 - Main plume almost 2 miles long, contaminated ground water near ground surface and discharges from springs (smaller plume also exists moving in different direction with topography)

Background

- OU-1 Point of Entry Treatment
 - ROD issued 1997; install at private wells impacted by plume
 - To date 53 systems installed at wells impacted by plume
- OU-2 Ground Water Plume
 - ROD issued 2001; pump and treat at contamination source area
 - ROD Amendment issued 2008; pump and treat to contain most contaminated portion of down gradient plume
 - Combo of ARRA and RA funding for pump and treat to contain plume; that portion of OU-2 substantially complete as of 2012 (treatment plant, extraction wells, piping etc)





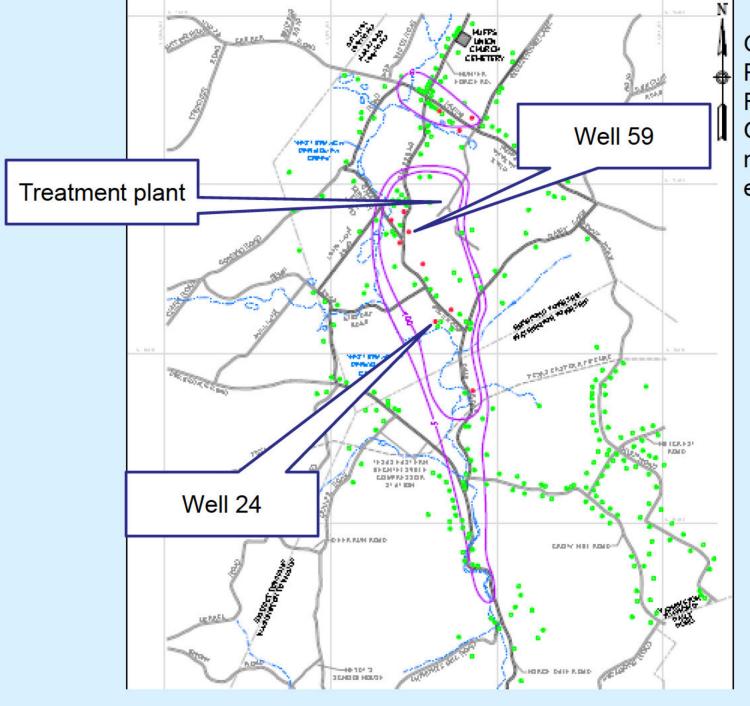
Vapor Intrusion

- OU-3 Vapor Intrusion (VI)
 - ROD issued 2012; VI mitigation at 12 affected residences which overly the plume + more sampling
 - RD is complete at 12 residences
 - Additional sampling = 5 additional residences
 - VI mitigation set to begin in December 2013
 - Exemption 5: DP

 More sampling this winter, but big change in number of residences requiring VI mitigation not expected

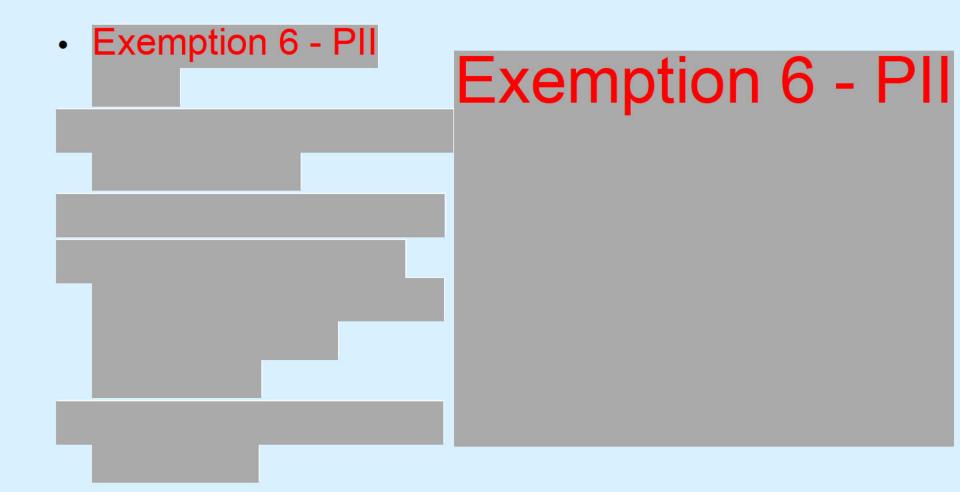
Additional information on VI Mitigation

- SSC at 99% Complete will be signed by end of 2013
- PADEP will maintain mitigation systems (replace parts, annual visit)
- Resident- electric cost ~\$5-15/month



Ground Water Plume(s) Red = mitigate Green = no mitigate (being evaluated)

Example #1 – Exemption 6 - PII



Personal Identifiable Information

Summary

- Vapor intrusion happening now
- Exemption 5: DP